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HIGHWAY EXCAVATION AND CONSTRUCTION

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Battle at Asan Point Seabee battalion uses excavating equipment that had just completed 18 to 24 months of continuous hard service to hurriedly construct an eight-mile four-lane permanent highway through a hill containing 200,000 cu. yds. of excavation, mostly rock, on a Pacific island. Pure American "guts" and hard work, plus proper servicing and maintenance, bring success.....	May	254
Ledo Road Using modern American equipment, American Engineers accomplish the "impossible" by completing in 15 months a modern permanent all-weather highway 478 miles through the toughest terrain in the world to establish a lifeline from India to sustain our valient Chinese allies in their fight against Jap aggression.....	April	190
Patching the Skokie Highway Charles Lenz's Bucyrus-Erie 15-B shovel traveled from one-half to three miles a day in loading trucks with broken up concrete from areas patched by the Peter J. Crowley Company on busy U. S. Highway 41 in Cook County Illinois.	Jan.	20
Postwar Road Program Fund Apportionment Four hundred million of first $500,000,000 not available to states until President proclaims end of war emergency or Congress authorizes its expenditure. Remaining $100,000,000 may be appropriated by Congress immediately and then will be available for financing surveys and plans and purchase of rights-of-way for projects to be immediately constructed.....	Feb.	72

AIRPORT AND CITY EXCAVATION

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Basements by the Thousands J. A. Danens & Son Company of Minneapolis see progress made in excavating business from horse and scraper days of 32 years ago. Use Bucyrus-Erie 22-B power shovel and 20-B dragline to average 450 basements a year.....	July	364
Digging a Garage Verdev Trucking Company of Milwaukee uses Bucyrus-Erie Dozer-Shovel to excavate basement garage without disturbing occupants of house.....	Sept.	491
Mountain-Top Airport George M. Brewster & Son, Inc., of Bogota, N. J., use 54-B, 47-B, and 120-B shovels and scrapers to level off top of mined-out Pennsylvania mountain to construct a CAA airport between Scranton and Wilkes-Barre. Almost 4,000,000 cu. yds. of unclassified excavation, over 60% rock, involved in grading work.	Dec.	670
Okinawa Airstrip (picture page).....	June	318
Philadelphia Gets a New Airport -- Leonard Martin Fox James D. Morrissey of Philadelphia completes $2,000,000 Northeast airport in Philadelphia in 90-day contract time in spite of problems caused by water, bog, heavily wooded areas, and heavy clay for runways that became plastic when wet. (19-B and 20-B).....	Nov.	604
They Paved Motoyama Volcano -- R. P. Day Moving 5,000,000 cu. yds. of earth was biggest single job in connection with building Iwo Jima's airfields. With plenty of equipment available Seabees and Army Engineers moved an average of 40,000 cu. yds. of earth per day in spite of live steam, hot soil, snipers, land mines and reinforced concrete blockhouses that had to be removed with the help of demolition charges.....	Oct.	546

WATER AND POWER SUPPLY EXCAVATION AND DAM CONSTRUCTION

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Bridge Canyon Dam Bureau of Reclamation's plans for structure that will outrank Boulder Dam in height and mass call for 4,360,000 cu. yds. of open cut excavation for the dam, 3,000,000 cu. yds. of excavation for preliminary construction of highway and railroad to dam site, and aggregate for 6,000,000 cu. yds. of concrete.	Oct.	556
Cover Picture Some day water will hurtle 339 feet over this abutment of Anderson Ranch Dam from the crest of the spillway to a level above that of the concrete mixing plant in the lower right. The Bureau of Reclamation has completed 88% of the structure which will be the highest earthfill dam in the world--U.S. Bureau of Reclamation Photo.....	July	

WATER AND POWER SUPPLY EXCAVATION AND DAM CONSTRUCTION (Continued)

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Doubling Provo River Excavation -- L. H. Houck J. B. & R. E. Walker, Inc. of Salt Lake City finishing four-job contract of modernizing Provo Reservoir Canal in Utah, a unit of one of the oldest irrigation systems in U. S., by replacing wood stave pipes with concrete siphons which more than double present capacity 20-B	Nov.	608
Farm Improvement by Excavation -- L. H. Houck Neal Hawkins, Gastonia, N. C. contractor, used his excavating equipment on his nearby farm and started a farm improvement program among farmers for miles around	Aug.	424

OPEN PIT MINING AND DREDGING

	Month	Page
A Shift with The Wonder Boys-- R. P. Day The author, R. P. Day, a Seabee, invites you to spend an eight-hour shift on a barge-mounted Bucyrus-Monighan 5-W with 75-ft. boom and 14-ton six cu. yd. clamshell bucket digging a nest for a drydock in 80 feet of water in a forward harbor of the Western Pacific	May	246
Casing Blast Holes Water-bearing sand strata above rock in overburden at Sherwood-Templeton Friar Tuck Coal Mine at Linton, Indiana, causes drilling problem that is met by using casing and modifying the three Bucyrus-Erie 29-T electric churn drills used at the mine	Sept.	486
Extending a Dredge Bethlehem Steel Company takes but 51 days to alter the "Papoose" to enable it to do hydraulic dredging at unusual depth of 100 feet. Alterations are such that dredge can be readily converted to its former condition	May	253
Harbor Stretcher, 1912-1945 -- R. P. Day Former Great Lakes Dredge & Dock Co. dredge, "Indiana", now working for U. S. Navy as the YM-18 to build up acreage and improve harbor of our Pacific Island base of Guam	Sept.	492
Maumee Mines Indiana No. 7 Vein Coal Problems caused by worked-out underground coal veins beneath the No. 7 Indiana vein being mined and tough overburden are met at Maumee Collieries No. 27 Mine by use of 42-T churn drills using 10-inch bits and a bench method of stripping with dragline and shovel	Aug.	418
Seabees Dredge at Island Base -- R. P. Day Only completely seagoing battalion of Seabees use 30-inch hydraulinc dredge "Tualatin", purchased by Navy and renamed "YM-19", to develop naval base at Pacific island. Dredging job involved removal of 400,000 cu. yds. of coral and construction of 13 acres of new land	April	186
Stripping Kentucky Coal Badgett Construction Co. of Memphis, Tenn., strips 3,200,000 cu. yds. of overburden from 100-acre Kentucky coal mine with two Bucyrus-Monighan 5-W walking draglines. Five 22-cu. yd. Euclid trucks haul 3,000,000 tons of coal loaded by two Lorain 1¼ cu. yd. shovels	July	370
Weggum Mine -- Henry Hughes Butler Brothers take over mine opened by Oliver Iron Mining Company in 1914 as an underground mine, change name to "Weggum" and adopt modern open pit methods and truck haulage at start of operations in 1943. Use Bucyrus-Erie 120-B electric shovels to move 4,343,014 cu. yds. of material and ship 1,025,631 tons of ore from January, 1943 to January 1, 1945 (27-T Drill)	March	130

QUARRIES, SAND AND GRAVEL

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Helping Iowa Corn Grow Tall E. Groenendyk & Sons lime quarry used Bucyrus-Erie bulldozer and Dozer-Shovel to produce agricultural limestone that is applied to farm lands in the area to sweeten soil for better corn crops. Equipment also used to mine strip pit coal	Jan.	10

MAINTENANCE, PRODUCTION EFFICIENCY AND SAFETY

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Accident Prevention in Postwar Construction -- Lloyd Blanchard Carrying out an accident prevention program consisting of 10 basic activities will enable the construction industry, through voluntary, intelligent and aggressive leadership, to establish a safety record in postwar construction that befits this great industry	May	251
Bulldozer Accident Prevention -- Kenneth F. Park Because of the power, weight and nature of work performed by tractors mounted with bulldozers, this equipment falls into the category of a potential accident breeder and thus it is important that bulldozers be used correctly to cut accident rate	Feb.	68
Crane Safe-load Indicator -- T. Davidson Problems of applications and limitations of safe-load indicators to mobile cranes related by engineer who concludes that it will require cooperation and compromises between user, instrument manufacturer and crane designer to make use of instrument practical	Oct.	552
Dragline Practices -- Lee Du Bois Practical methods and helpful hints on the most efficient operation of draglines under varying conditions	July	366
Safety Factors in Arc Welding -- R. F. Wyer Judged by industrial standards arc welding is not a hazardous occupation and electric shock is a relatively infrequent cause of death, but maintenance and supervision play an important part in the safety side of welding	March	134

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After the Engines Went Home — Speedway Wrecking Company salvages grain and cleans up wreckage with 37-B and 44-B cranes and 22-B transit crane after fire does an estimated $2,000,000 damage to 150-foot elevator of Rosenbaum Brothers & Co. in Chicago	Feb.	62
Battling Bulldozers — Excavating equipment playing important part on various war fronts is doing basically the same things for the military services that it did for contractors in prewar days. Men who use the equipment at war will be the men who will make use of it in postwar development	Jan.	14
Crawler Cranes Aid Piledriving -- R. P. Day — Army and Navy Engineers pioneer the successful use of 15-B crawler cranes for piledriving on military installations	Feb.	66
Excuses for Delay in Performance of Government Contract -- R. S. Hoar — As a result of a recent Supreme Court interpretation of Article 9 of the Standard Form of Government Construction Contract, contractors are advised to be sure to include in their bids the express condition that the word "unforseeable" and the 10-day reporting provision be omitted or deleted from the Delays-Damage clause, and not to accept the contracts unless this deletion or omission has been done	Mar.	138
Floating Drydocks for the Pacific -- D. E. Larson — Crawler cranes show excellent all-round utility value in handling unusual steel erection job at Eureka, California Drydock Yard (54-B)	Mar.	126
Front Cover — Floodlights glare and moving equipment headlights draw white line patterns in this time exposure photo of a night construction scene of the rip rap slope in place downstream from the toe of Anderson Ranch Dam in Idaho-Bureau of Reclamation Photo	Nov.	
Objective -- Rifle Tange -- R. P. Day — Seabees and Marines find Bucyrus-Erie S-90 scrapers ideal excavating equipment for constructing rifle ranges as part of additional training facilities for new replacement troops at a Pacific base	Dec.	678
Pratt's Star Performer — Pratt's Express Co. of Minneapolis has used its Bucyrus-Erie 22-B Transit Crane purchased in April 1943, for seven days a week in all kinds of weather without a single lost-time hour	June	306
Seabee Spoor -- J. Duncan Campbell — The size of the Pacific Theater of Operations may be better realized when one gives a little thought to the enormity of the job of but one Seabee battalion working for only one year--and yet this is the trail left by the war's progress and modern excavating equipment, across but one small Pacific island	Aug.	426
Seabees "Borrow" a Million Yard Mountain -- R. P. Day — Seabees use modern excavating equipment, including Bullgraders, to dig and haul an average of more than 200,000 cu. yds. of coral a month for base material for roads, airfields, camp sites and fills on Guam	June	314
Slugger -- Captain J. R. Ryall, C.E. — A big unglamorous hard-working war hero who gets no medals and will never march in a victory parade, but will end his battle- scarred life in China, tells of his experiences in the fight against the Japs	June	310
Steel Mill Slag Salvage — Salvage Contractor Robert M. Chambers of Turtle Creek, Pa., has been carrying on for the past four years a successful metal salvage operation at the huge Carnegie-Illinois Steel Corporation mill at Gascola, Pa. with five Bullgraders, two power shovels, four crane-mounted magnets and trucks	Dec.	676
Surplus War Equipment Disposal Plan — Power Crane and Shovel Association submits to Surplus War Property Board recommendations for disposal of new and used equipment and spare parts	May	249
U. S. Engineers Redistribute Used Material -- L. H. Houck — Army Engineers use five cranes, four crawler and one railroad, at New Orleans Engineer Redistribution Center to unload, store and reload for further use material and equipment from battlefields all over the world. Center also used as depository for finished materials of contractors with terminated contracts	April	194
Veterans for Excavating Jobs -- Sgt. Ernest W. Fair	Nov.	612
Where There's a Will -- R. P. Day, CCM, USNR — Seabee ingenuity finds a way to use modern excavating equipment including S-90 scraper and 22-B crane, to do unusual jobs in the Pacific area of operations.	Aug.	422

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